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Attorney Docket No. 039362 - 0067

WHAT IS CLAIMED IS:

- An apparatus for simultaneously delivering mulitple telephony services over a communications network comprising:
 - a single telephone cable; and
- 5 a plurality of telephony devices connected to the single telephone cable.
 - The apparatus of claim 1, further comprising a digital telephone multiplexer connected to the single telephone cable.
 - The apparatus of claim 1, further comprising one digital telephone demultiplexer connected to each one said plurality of telephony devices.
 - The apparatus of claim 3, wherein the single telephone cable is connected to each one of the demultiplexers.
 - The apparatus of claim 2, wherein the digital telephone multiplexer is disposed in a communications gateway.
- An apparatus for simultaneously delivering mulitple telephony services over a
 communications network comprising:
 - a single telephone cable;
 - a plurality of sets of telephone/demultiplexer units connected to said cable, each one of said telephone/demultiplexer units including a demultiplexer and telephone device, wherein each one of said demultiplexers of said plurality of sets of telephone/demultiplexer units are connected to said cable and each one of said telephone devices of said plurality of sets of telephone/demultiplexer units are connected to its respective demultiplexer; and
 - a multiplexer coupled to said cable, and generating voice data over said cable.
 - 7. An apparatus for simultaneously delivering multiple telephony services over a VoIP

Attorney Docket No. 039362 - 0067

voice communications network comprising:

a single telephone cable connected to the VoIP voice communications network;

a multiplexer generating a multiplexed voice data stream over and connected to said cable, wherein the digital telephone multiplexer is disposed in a communications gateway;

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a plurality of sets of telephone/demultiplexer units connected to said cable, each one of said telephone/demultiplexer units including a demultiplexer and telephone device, wherein each one of said demultiplexers of said plurality of sets of telephone/demultiplexer units are connected to said cable and each one of said telephone devices of said plurality of sets of telephone/demultiplexer units are connected to its respective demultiplexer, wherein each of said telephone/demultiplexer units are configured to generate a demultiplexed voice data stream in response to said multiplexed voice data stream.

- A method for simultaneously delivering multiple telephony services over a communications network, the method comprising the steps of:
- 15 providing a single telephone cable; and connecting a plurality of telephony devices to the single telephone cable.
 - The method of claim 8, further comprising providing a digital telephone multiplexer connected to the single telephone cable.
 - The method of claim 8, further comprising providing one digital telephone demultiplexer connected to each one said plurality of telephony devices.
 - 11. A method for simultaneously delivering mulitple telephony services over a communications network, the method comprising the steps of:

providing a single telephone cable;

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Attorney Docket No. 039362 - 0067

connecting a plurality of sets of telephone/demultiplexer units to said cable, each one of said telephone/demultiplexer units including a demultiplexer and telephone device, wherein each one of said demultiplexers of said plurality of sets of telephone/demultiplexer units are connected to said cable and each one of said telephone devices of said plurality of sets of telephone/demultiplexer units are connected to its respective demultiplexer; and

coupling a multiplexer to said cable, and generating multiplexed voice data over said cable.

12. A method for simultaneously delivering multiple telephony services over a communications network, the method comprising the steps of:

providing a single telephone cable;

connecting to said cable and generating a multiplexed voice data stream over said cable with a multiplexer, wherein the multiplexer is disposed in a communications gateway; and

connecting a plurality of sets of telephone/demultiplexer units to said cable, each one of said telephone/demultiplexer units including a demultiplexer and telephone device, wherein each one of said demultiplexers of said plurality of sets of telephone/demultiplexer units are connected to said cable and each one of said telephone devices of said plurality of sets of telephone/demultiplexer units are connected to its respective demultiplexer, wherein each of said telephone/demultiplexer units are configured to generate a demultiplexed voice data stream in response to said multiplexed voice data stream.

13. A communications gateway (CG) for transmitting and receiving voice communication data to a plurality of telephone/demultiplexer units over a single external telephone cable comprising: Attorney Docket No. 039362 - 0067

a computer memory:

a central processing unit coupled to the computer memory;

a digital signal processor coupled to the computer memory and the central processor unit; and

- 5 a multiplexer coupled to the digital signal processor and the single external telephone cable being configured to transmit and receive said voice communication data.
 - 14. The communications gateway of claim 13, wherein the hybrid fiber cable media access interface, the computer memory, and the shared central processor unit comprise a cable modem portion.
- 10 15. The communications gateway of claim 13, wherein the digital signal processor, the multiplexer, and the shared central processor comprise a telephony interface.
 - 16. A telephony adapter for adapting transmission of transmitted and received voice communication data to a telephone device over a single external telephone cable comprising;
- 15 a demultiplexer coupled to the single external telephone cable;
 - a coder/decoder coupled to the demultiplexer; and
 - a subscriber line interface connection coupled to the coder/decoder, the subscriber line interface connection configured to adapt said transmission of the transmitted and received voice communication data.